

ABSTRACT

A method for reducing the crest factor of a multi-carrier signal includes evaluating an inverse Fourier transform of the multi-carrier signal, thereby generating a transformed multi-carrier signal; defining a signal-to-be-corrected to be the transformed multi-carrier signal; generating a simulated output signal; estimating a signal maximum of the simulated output signal; deriving a first correction variable on the basis of the estimate; correcting the signal-to-be-corrected using at least the first correction variable, thereby generating a corrected output signal having a reduced crest factor; defining the corrected output signal to be the signal-to-be-corrected; and iteratively repeating the last five steps until the corrected output signal has a crest factor below a predetermined threshold, or a predetermined number of iterations has occurred.